

CLAIM LISTING

1-5. (Canceled)

6. (Currently Amended) A system for processing price data corresponding to a sequence of time for a selected interval and detecting one or more patterns in said price data, said system comprising:

a database communicatively coupled to a data processor and a pattern recognition processor, ~~wherein:~~

said database comprising means for storing said price data in system addressable format, ~~wherein said price data is organized for processing into a non-linear relationship;~~

said data processor responsive to price data stored in said database and comprising means for generating data representing said a non-linear relationship function having a smooth, curvilinear characteristic for a range of data within said interval by applying to said price data a smoothing estimator whose parameters comprise a bandwidth, a window length, and a lag time;

said pattern recognition processor in communication with said data processor, operable to receive said data corresponding to said non-linear function, and comprising means for applying analyzing said smoothed non-linear relationship function to discern the existence of identify one or more patterns of price-time data and generating a results output based on a recognition of said one or more patterns; and said pattern recognition processor further comprising means for detecting one or more broadening tops and broadening bottoms, and said results output comprising price movement projections based on said detected one or more broadening tops and broadening bottoms.

7. (Currently Amended) A system for processing price data corresponding to a sequence of time for a selected interval and detecting one or more patterns in said price data, said system comprising:

a database communicatively coupled to a data processor and a pattern recognition processor, ~~wherein:~~

said database comprising means for storing said price data in system addressable format, ~~wherein said price data is organized for processing into a non-linear relationship;~~

said data processor responsive to price data stored in said database and comprising means for generating data representing said a non-linear relationship function having a smooth, curvilinear characteristic for a range of data within said interval by applying to said price data a smoothing estimator whose parameters comprise a bandwidth, a window length, and a lag time;

said pattern recognition processor in communication with said data processor, operable to receive said data corresponding to said non-linear function, and comprising means for applying analyzing said smoothed non-linear relationship function to discern the existence of identify one or more patterns of price-time data and generating a results output based on a recognition of said one or more patterns; and said pattern recognition processor further comprising means for detecting one or more head and shoulders patterns, and said results output comprising price movement projections based on said detected one or more head and shoulders patterns.

8. (Currently Amended) A system for processing price data corresponding to a sequence of time for a selected interval and detecting one or more patterns in said price data, said system comprising:

a database communicatively coupled to a data processor and a pattern recognition processor, ~~wherein:~~

said database comprising means for storing said price data in system addressable format, ~~wherein said price data is organized for processing into a non-linear relationship;~~

said data processor responsive to price data stored in said database and comprising means for generating data representing said a non-linear relationship function having a smooth, curvilinear characteristic for a range of data within said interval by applying to said price data a smoothing estimator whose parameters comprise a bandwidth, a window length, and a lag time;

said pattern recognition processor in communication with said data processor, operable to receive said data corresponding to said non-linear function, and comprising means for applying analyzing said smoothed non-linear relationship function to discern the existence of identify one or more patterns of price-time data and generating a results output based on a recognition of said one or more patterns; and said pattern recognition processor further

comprising means for detecting one or more triangle tops and triangle bottoms, and said results output comprising price movement projections based on said detected one or more triangle tops and triangle bottoms.

9. (Currently Amended) A system for processing price data corresponding to a sequence of time for a selected interval and detecting one or more patterns in said price data, said system comprising:

a database communicatively coupled to a data processor and a pattern recognition processor, ~~wherein:~~

said database comprising means for storing said price data in system addressable format, ~~wherein said price data is organized for processing into a non-linear relationship;~~

said data processor responsive to price data stored in said database and comprising means for generating data representing said a non-linear relationship function having a smooth, curvilinear characteristic for a range of data within said interval by applying to said price data a smoothing estimator whose parameters comprise a bandwidth, a window length, and a lag time;

said pattern recognition processor in communication with said data processor, operable to receive said data corresponding to said non-linear function, and comprising means for applying analyzing said smoothed non-linear relationship function to discern the existence of identify one or more patterns of price-time data and generating a results output based on a recognition of said one or more patterns; and said pattern recognition processor further comprising means for detecting one or more rectangle tops and rectangle bottoms, and said results output comprising price movement projections based on said detected one or more rectangle tops and rectangle bottoms.

10. (Currently Amended) A system for processing price data corresponding to a sequence of time for a selected interval and detecting one or more patterns in said price data, said system comprising:

a database communicatively coupled to a data processor and a pattern recognition processor, ~~wherein:~~

said database comprising means for storing said price data in system addressable format; ~~wherein said price data is organized for processing into a non-linear relationship;~~

said data processor responsive to price data stored in said database and comprising means for generating data representing said a non-linear relationship function having a smooth, curvilinear characteristic for a range of data within said interval by applying to said price data a smoothing estimator whose parameters comprise a bandwidth, a window length, and a lag time;

said pattern recognition processor in communication with said data processor, operable to receive said data corresponding to said non-linear function, and comprising means for applying analyzing said smoothed non-linear relationship function to discern the existence of identify one or more patterns of price-time data and generating a results output based on a recognition of said one or more patterns; ~~and~~ said pattern recognition processor further comprising means for detecting one or more double tops and double bottoms, and said results output comprising price movement projections based on said detected one or more double tops and double bottoms.

11-14. (Canceled)